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ME 8: Containerization and Docker

Activity 5

Running apache server, curl localhost, then modifying the **index.html** file

```
Windows PowerShell
PS C:\Users\Kenneth> docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
86954f8169fd: Pull complete
Digest: sha256:b067ca5263eb5749a08f125eaa30a375956c00a18b9336db703f2197351fb2e4
Status: Downloaded newer image for httpd:2.4
a6b279665c18044e980dd 7ed2fd5c944e3705fd1656479084fd20d4ffa7e9
PS C:\Users\Kenneth> curl localhost

StatusCode      : 200
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Accept-Ranges: bytes
Content-Length: 45
Content-Type: text/html
Date: Wed, 26 May 2021 10:19:05 GMT
ETag: "2d-432a5e4a73a80..."
Forms           : {}
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length, 45]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 45

PS C:\Users\Kenneth> docker cp index.html apache:/usr/local/apache2/htdocs/
CreateFile C:\Users\Kenneth\index.html: The system cannot find the file specified.
PS C:\Users\Kenneth> Y:
PS Y:\> cd .\wsl\197\ME8_Containerization_and_Docker\5-volumes\
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/htdocs/
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> |
```

Running curl after replacing **index.html**

```
Windows PowerShell
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> curl localhost

StatusCode      : 200
StatusDescription : OK
Content          : <html><body><h1>It works in Docker!</h1></body></html>
RawContent       : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 56
                  Content-Type: text/html
                  Date: Wed, 26 May 2021 10:25:14 GMT
                  ETag: "38-5c32454a6a680..."
Forms           : {}
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length, 56]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 56

PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes>
```

Creating and deleting a volume

```
Windows PowerShell
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER      VOLUME NAME
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume create myvolume
myvolume
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER      VOLUME NAME
local       myvolume
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume rm myvolume
myvolume
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume ls
DRIVER      VOLUME NAME
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> |
```

Mounting a volume

```
Windows PowerShell
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker volume create httpd_htdocs
httpd_htdocs
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
edbf6e13c1a87566d53dd0faa3e38d9399fc313dcb013b3427ec69e5be551f64
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/htdocs/
PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> curl localhost

StatusCode      : 200
StatusDescription : OK
Content          : <html><body><h1>It works in Docker!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 56
                  Content-Type: text/html
                  Date: Wed, 26 May 2021 11:00:59 GMT
                  ETag: "38-5c32454a6a680..."

Forms           : {}
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length, 56]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 56

PS Y:\wsl\197\ME8_Containerization_and_Docker\5-volumes> |
```

Mounting host directory as volume

```
kenneth@LAPTOP-7397R25E: /mnt/y/wsl/197/ME8_Containerization_and_Docker/5-volumes$ docker run --rm -d --name apache -p 80:80 -v /mnt/y/wsl/197/ME8_Containerization_and_Docker/5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
60e108c90377b0d89714211fc49d9dc733f7b6faae80a7ebd0c830a38be06db4
kenneth@LAPTOP-7397R25E: /mnt/y/wsl/197/ME8_Containerization_and_Docker/5-volumes$ curl localhost
<html><body><h1>It works in Docker!</h1></body></html>
kenneth@LAPTOP-7397R25E: /mnt/y/wsl/197/ME8_Containerization_and_Docker/5-volumes$ curl localhost
<html><body><h1>Da baby! Let's go!!</h1></body></html>
kenneth@LAPTOP-7397R25E: /mnt/y/wsl/197/ME8_Containerization_and_Docker/5-volumes$ |
```